

Course 6451B: Planning, Deploying and Managing Microsoft Systems Center Configuration Manager 2007

About this Course

This five-day, instructor-led course will provide you with the knowledge and skills to plan, deploy, and manage Microsoft System Center Configuration Manager 2007 R3. This course requires that students have a base-level understanding of Systems Management Server 2003 or Configuration Manager 2007. It also requires that students have a system administrator-level working knowledge of deployment, configuration, and troubleshooting for Windows-based personal computers, as well as a working knowledge of TCP/IP networking, Microsoft SQL Server, Active Directory Domain Services (AD DS) or Active Directory directory service, and basic Public Key Infrastructure concepts. This course focuses on planning and deploying sites and clients, configuring software distribution, deploying operating systems, and managing software updates. It also focuses on remote tools and managing mobile devices.

Audience Profile

This course is intended for systems engineers with one to three years of experience supporting multiple desktop and server computers running Microsoft Windows Server in medium to large enterprise organizations, and who have a need to plan a System Center Configuration Manager 2007 deployment. This course may also be taken by Configuration Manager 2007 Administrators who are responsible for configuring and managing one or more Microsoft Systems Management Server (SMS) 2003 or Configuration Manager 2007 sites, and all supporting systems. Administrators have one to three years of experience supporting multiple desktop and server computers running Windows Server in medium to large enterprise organizations.

At Course Completion

After completing this course, students will be able to:

- Plan, deploy, and manage Microsoft System Center Configuration Manager 2007 R3 for their enterprise environment.
- Plan and deploy a single-site architecture.
- Plan for and complete client deployment.
- Explain inventory collection, software metering, and Asset Intelligence.
- Query and report data.
- Distribute software using Microsoft System Center Configuration Manager 2007.
- Deploy virtual applications using Microsoft System Center Configuration Manager 2007.
- Deploy and manage software updates.
- Deploy operating systems using Microsoft System Center Configuration Manager 2007.
- Working with desired configuration management.
- Configure Wake On LAN, remote tools, and out-of-band management.
- Plan and configure a multiple site hierarchy.
- Maintain and monitor Microsoft System Center Configuration Manager 2007.
- Explain Microsoft System Center Configuration Manager 2007 native mode and internet-based client management.

Prerequisites

Before attending this course, students must have:

- A base-level understanding of Systems Management Server 2003 or Configurations Manager 2007.
- A system administrator-level working knowledge of:
 - Deployment, configuration, and troubleshooting for Windows-based personal computers
 - TCP/IP networking
 - SQL Server
 - Active Directory
 - Basic Public Key Infrastructure concepts

Course Outline

Module 1: Overview of Microsoft System Center Configuration Manager 2007

This module explains Microsoft System Center Configuration Manager 2007 features, and describes primary infrastructure components and deployment scenarios of Configuration Manager 2007.

Lessons

- Introduction to System Center Configuration Manager 2007
- Configuration Manager Features
- Configuration Manager Deployment Scenarios
- Overview of the Configuration Manager Client

After completing this module, students will be able to:

- Describe the primary Configuration Manager 2007 features.
- Describe where Configuration Manager fits in the Microsoft System Center management space.
- Describe the benefits of using Configuration Manager.
- Describe the Configuration Manager console.
- Describe Configuration Manager 2007 Service Pack 1 (SP1) features.
- Describe Configuration Manager 2007 Service Pack 2 (SP2) features.
- Describe Configuration Manager 2007 Release 2 (R2) features.
- Describe the System Center Configuration Manager 2007 Software Development Kit (SDK).
- Describe using Configuration Manager in the workplace.
- Describe basic implementation considerations for small-to-medium organizations.
- Describe basic implementation considerations for medium-to-large organizations.
- Describe basic implementation considerations for global organizations.
- Describe the Configuration Manager client.
- Describe Internet-based client management.
- Describe the supported Windows clients.
- Describe the supported mobile clients.
- Describe the International Client Packs.
- Describe how data flows in Configuration Manager.

Module 2: Planning and Deploying a Single-Site Architecture

This module describes planning considerations and deployment tasks for implementing Microsoft System Center Configuration Manager 2007 single-site architecture.

Lessons

- Planning a System Center Configuration Manager Site Deployment
- Preparing to Deploy a Configuration Manager 2007 Site
- Installing a Configuration Manager 2007 Site Server
- Performing Post-Setup Configuration Tasks
- Discovering Resources
- Monitoring and Troubleshooting Tools in Configuration Manager 2007

Lab: Deploying a Configuration Manager Site Server

- Installing Configuration Manager Prerequisites
- Extending the Active Directory Schema
- Installing Configuration Manager 2007 SP2

Lab: Deploying a Configuration Manager Site Server, Continued

- Verifying a Successful Configuration Manager Site Server Installation
- Verifying the Creation of the System Management Container
- Installing Configuration Manager 2007 R2

Lab: Managing Users and Configuring Boundaries and Discovery Methods

- Managing Configuration Manager Users
- Configuring Boundaries
- Enabling and Configuring Discovery Methods

Lab: Monitoring and Troubleshooting Configuration Manager 2007

- Using the ConfigMgr Service Manager
- Reviewing Log Files with Trace32
- Reviewing Discovery Status Messages
- Configuring Status Messages

After completing this module, students will be able to:

- Describe the preplanning tasks.
- Design the Configuration Manager 2007 site hierarchy.
- Choose an installation method.
- Describe Configuration Manager 2007 site-naming considerations.
- Describe site-mode considerations.
- Discuss Configuration Manager 2007 deployment planning.
- Describe site system requirements.
- Use the Configuration Manager prerequisite checker.
- Install and configure the prerequisites for Configuration Manager 2007.
- Extend the Active Directory schema.
- Describe the Configuration Manager setup tasks.
- Install a primary site.
- Deploy a Configuration Manager site server.
- Verify a successful site server installation.
- Describe the required post-setup configuration tasks.
- Configure Configuration Manager 2007 object security.
- View and configure site settings.
- Describe resource discovery.
- Describe the resource discovery methods.
- Configure Active Directory discovery methods.
- Configure Network Discovery options.
- Configure Heartbeat Discovery.
- Describe collections.
- Configure and enable discovery methods.
- Describe the Configuration Manager 2007 log files.
- View log files with Trace32.
- Describe the ConfigMgr Service Manager.
- Monitor system status.
- Configure status messages.

Module 3: Planning for and Completing Client Deployment

This module explains how to successfully plan and deploy Configuration Manager 2007 clients.

Lessons

- Client Deployment Methods
- Deploying Clients
- Managing Configuration Manager Clients
- Using Configuration Manager Reporting with Client Installation

Lab: Deploying Configuration Manager Clients

- Preparing the Site for Client Installation
- Deploying the Configuration Manager Client Using the Client Push Installation Method

Lab: Verifying Client Deployment

- Reviewing Client Deployment

After completing this module, students will be able to:

- Describe the client installation process.
- Identify the Configuration Manager client deployment methods.
- Describe the role that Active Directory Domain Services (AD DS) plays in the client deployment process.
- Identify the site systems used for client deployment.
- Prepare for a client push installation.

- Prepare for a software update point installation.
- Prepare for a Group Policy installation.
- Describe additional client installation methods.
- Describe client system requirements for Configuration Manager client deployment.
- Describe how clients are assigned to sites.
- Describe how clients find the site systems to communicate during client installation.
- Configure client approval settings.
- Install the Configuration Manager client using Group Policy
- Verify a successful client installation.
- Manage client installation or assignment issues.
- Describe client policy retrieval.
- Describe common configuration settings for the Computer Client Agent.
- Describe the Configuration Manager client interface.
- Describe how to uninstall the Configuration Manager client.
- Describe Configuration Manager reports.
- Describe how the Report Viewer works.
- Monitor and troubleshoot client deployment.

Module 4: Inventory Collection, Software Metering, and Asset Intelligence

This module explains how to collect and manage hardware and software inventory, implement software metering, and use Asset Intelligence.

Lessons

- Overview of Inventory Collection
- Collecting Hardware Inventory
- Collecting Software Inventory
- Managing and Troubleshooting Inventory
- Asset Intelligence
- Metering Software Usage

Lab: Collecting Inventory

- Configuring and Managing Hardware Inventory
- Modifying Hardware Inventory Collection
- Configuring and Managing Software Inventory

Lab: Using Asset Intelligence

- Configuring Asset Intelligence Prerequisites
- Configuring Asset Intelligence
- Customizing Asset Intelligence
- Viewing Asset Intelligence Reports

Lab: Configuring Software Metering

- Configuring Software Metering

After completing this module, students will be able to:

- Define inventory collection
- Describe how you can use hardware and software inventory data.
- Describe the inventory collection process.
- Describe how the Hardware Inventory Client Agent collects the hardware inventory, and describe how to enable it.
- Explain how Configuration Manager 2007 uses Managed Object Format (MOF) files for hardware inventory.
- Explain how to modify the MOF files used for hardware inventory.
- Configure and extend hardware inventory.
- Describe how the Software Inventory Client Agent collects the software inventory, and how to enable the Software Inventory Client Agent.
- Explain how to configure software inventory rules.
- Explain how to configure software inventory file collection.
- Explain how to initiate inventory collection on a client.
- Explain how to view inventory results.

- Secure the client inventory collection.
- Troubleshoot client inventory collection
- Describe Asset Intelligence information.
- Describe the Asset Intelligence catalog.
- Explain how to customize the Asset Intelligence catalog.
- Describe the prerequisites for Asset Intelligence.
- Explain how to configure Asset Intelligence data collection.
- Describe the Asset Intelligence management tasks.
- Describe software metering.
- Describe the software metering functionality.
- Describe the process for configuring and enabling software metering.
- Describe software metering maintenance tasks.

Module 5: Querying and Reporting Data

This module describes data structure for data queries and status message queries, and also describes the available reporting options and how to configure and deploy the available reporting options.

Lessons

- Introduction to Data and Status Message Queries
- Managing Queries
- Configuring and Deploying a Reporting Point
- Managing Reports
- Creating and Using Dashboards
- SQL Reporting Services in Configuration Manager 2007 R2
- Client Status Reporting in Configuration Manager 2007 R2

Lab: Creating Queries

- Creating and Running a Query
- Creating and Running a Complex Query
- Creating and Running a Status Message Query

Lab: Creating a Reporting Point

- Installing Reporting Point Prerequisites
- Adding a Site System with the Reporting Point Role
- Using the Report Viewer in a Web Browser

Lab: Managing Reports

- Creating a List Report
- Creating a Filter Report
- Creating a Count Report
- Enabling a Link in a Report

Lab: Working with Dashboards

- Creating and Using a Dashboard

Lab: Using SQL Reporting Services

- Installing the Reporting Services Point Role
- Managing the Reporting Services Point
- Viewing SQL Reporting Services Reports

Lab: Installing and Using Client Status Reporting

- Installing and Configuring Client Status Reporting
- Installing and Viewing Client Status Reporting Reports

After completing this module, students will be able to:

- Describe queries.
- Describe Configuration Manager attributes and object types.
- Describe required query elements.
- Describe optional query elements.
- Discuss how to design queries.
- Create and use data queries.
- Create and use Status Message queries.
- Create queries.

- Run queries.
- Describe reporting points.
- Describe the requirements for reporting point deployment.
- Create a reporting point.
- Describe the best practices for securing reporting points.
- Create reports.
- Describe prompted reports.
- Describe linked reports.
- Describe supplemental reports.
- Use the Reporting Web site.
- Run a report.
- Manage reports.
- Describe dashboards.
- Create and access dashboards.
- Use dashboards.
- Describe SQL Reporting Services.
- Describe the prerequisites for SQL Reporting Services.
- Plan for SQL Reporting Services deployment.
- Configure SQL Reporting Services.
- Use SQL Reporting Services.
- Describe client status reporting.
- Describe the prerequisites for client status installation.
- Plan for client status reporting.
- Install and configure client status reporting.
- Use client status reporting reports.

Module 6: Distributing Software Using Microsoft System Center Configuration Manager 2007

This module describes the processes and components used to prepare for and manage software distribution using Configuration Manager 2007.

Lessons

- Overview of the Software Distribution Process
- Preparing for Software Distribution
- Overview of Distribution Points
- Creating and Populating Collections
- Configuring Collections
- Creating and Configuring Packages and Programs
- Distributing Packages
- Advertising Programs
- Monitoring and Troubleshooting Software Distribution

Lab: Preparing for Software Distribution

- Configuring the Software Distribution Component
- Configuring the Advertised Programs Client Agent
- Configuring a distribution point

Lab: Creating and Configuring a Collection

- Creating a Collection for Software Distribution

Lab: Creating a Package and Configuring Programs

- Creating a Package and Configuring Programs

Lab: Deploying Applications by Using Software Distribution

- Distributing a Package to a Distribution Point
- Advertising a Program to a Collection
- Running an Advertised Program
- Reviewing Results

After completing this module, students will be able to:

- Describe the Configuration Manager software distribution feature and its benefits.
- Describe software distribution-specific concepts.
- Describe the software distribution process.
- Describe the client role in software distribution.
- Describe the prerequisites for software distribution.
- Explain the site configuration tasks that support software distribution.
- Describe the configuration options for the software distribution components.
- Describe the Advertised Programs Client Agent.
- Describe distribution points.
- Describe standard and branch distribution points.
- Describe protected distribution points.
- Discuss guidelines for configuring distribution points.
- Describe the collections.
- Explain how to create a collection.
- Explain how to populate collection membership.
- Describe subcollections and how to create them.
- Describe the collection-specific settings.
- Describe maintenance windows.
- Explain how to create, manage, and configure maintenance windows.
- Describe the purpose of packages and programs.
- Describe the package source directory and how it is used.
- Explain how to create a package at a high level.
- Describe the package home page.
- Explain how to create and manage programs.
- Explain how to install software using a task sequence.
- Explain how to manage packages on distribution points.
- Explain how to distribute packages to branch distribution points.
- Define advertisements.
- Explain how to create advertisements.
- Describe the options for managing advertisements.
- Describe how clients retrieve information about an advertisement.
- Describe how clients run an advertised program.
- Describe the methods used to monitor and troubleshoot software distribution.
- Describe Software Distribution home page features.
- Describe how status messages and status message queries help troubleshoot advertisement/package issues.
- Describe the software distribution reports used to monitor software distribution.
- Describe the software distribution log files used to monitor software distribution.
- Explain how to use the Client Spy utility to monitor software distribution.
- Describe and apply best practices for securing software distribution.

Module 7: Deploying Virtual Applications Using Microsoft System Center Configuration Manager 2007

This module explains how to deploy virtual applications using Configuration Manager 2007.

Lessons

- Configuring the Infrastructure to Support Application Virtualization
- Deploying and Managing Application Virtualization Packages
- Using Virtual Application Programs

Lab: Deploying Virtual Applications to Configuration Manager Clients

- Preparing the Infrastructure for Application Virtualization
- Deploying a Virtual Application Package
- Launching and Monitoring a Virtual Application Program

After completing this module, students will be able to:

- Describe the concept of application virtualization.
- Describe the process for integrating and deploying virtual applications using Configuration Manager 2007 R2.
- Configure virtual application streaming delivery.
- Configure virtual application local delivery.
- Configure the Advertised Programs Client Agent to run virtual applications.
- Describe the process for creating a new virtual application package.
- Describe the process for advertising virtual application packages to Configuration Manager clients.
- Describe tools that help you manage virtual application packages.
- Describe best practices for managing virtual application packages.
- Create and advertise virtual application packages.

Module 8: Deploying and Managing Software Updates

This module explains how to deploy and manage software updates to client computers throughout the enterprise.

Lessons

- Overview of Software Updates
- Preparing the Configuration Manager 2007 Site for Software Updates
- Managing Software Updates
- Monitoring and Troubleshooting Software Updates

Lab: Deploying and Managing Software Updates

- Configuring the Software Updates Infrastructure
- Determining the Software Update Compliance
- Deploying Software Updates to Clients

After completing this module, students will be able to:

- Describe the software updates feature in Configuration Manager 2007.
- Describe prerequisites for using the software updates feature.
- Describe how software updates synchronizes metadata.
- Explain how clients are scanned for software update compliance.
- Explain how clients install software updates.
- Explain the software update process.
- Describe considerations for defining the appropriate software update point infrastructure.
- Describe the process for installing software update points.
- Describe the manual and scheduled software updates synchronization methods.
- Install and configure the software update point site server role.
- Describe the Software Updates Client Agent settings.
- Describe the Configuration Manager client actions.
- Describe methods to identify which software updates to deploy.
- Explain how to use update lists.
- Describe how deployment templates are used during the software deployment process.
- Create update lists and deployment templates.
- Describe deployment packages in software updates.
- Describe the difference between mandatory and optional software updates.
- Deploy software updates.
- Describe the System Center Updates Publisher.
- Describe methods used to monitor software updates.
- Describe the log files used for software updates.
- Troubleshoot software updates.

Module 9: Deploying Operating Systems Using Microsoft System Center Configuration Manager 2007

This module explains how to deploy operating systems using Configuration Manager 2007.

Lessons

- Overview of Operating System Deployment
- Task Sequences in Operating System Deployment
- Preparing for Operating System Deployment
- Capturing Operating System Images
- Managing User Data
- Deploying an Operating System

Lab: Capturing a Reference Computer

- Preparing the Reference Computer for Capture
- Creating Packages for Operating System Deployment
- Managing Drivers
- Preparing the Environment for Operating System Deployment
- Creating and Advertising the Capture Operating System Task Sequence

Lab: Performing an In-Place Upgrade Using Hard Links

- Preparing the Operating System Image
- Creating a Task Sequence to Deploy a New Image
- Advertising and Running the Task Sequence

After completing this module, students will be able to:

- Describe operating system components.
- Describe the Operating System Deployment methods.
- Describe the Operating System Deployment process.
- Configure task sequences.
- Describe task sequences variables.
- Use the Task Sequence Editor.
- Advertise task sequences.
- Describe the prerequisites for Operating System Deployment.
- Describe how the Network Access account is used for Operating System Deployment.
- Create a driver catalog.
- Configure packages.
- Prepare boot images.
- Manually create a reference computer.
- Use a task sequence to capture a reference computer.
- Use a task sequence to create and capture a reference computer.
- Describe USMT.
- Configure computer associations.
- Install a state migration point.
- Capture and restore user data.
- Prepare the boot images.
- Add an operating system image to Configuration Manager.
- Deploy an operating system.
- Use multicast for PXE deployments.
- Perform an in-place migration.
- Perform a side-by-side migration.
- Troubleshoot Operating System Deployments.

Module 10: Working with Desired Configuration Management

This module explains how to determine computer compliance using desired configuration management (DCM).

Lessons

- Overview of Desired Configuration Management
- Configuring Desired Configuration Management
- Integrating Microsoft Forefront Client Security Compliance

- Viewing and Troubleshooting Compliance Results

Lab: Configuring Desired Configuration Management

- Configuring Desired Configuration Management for Forefront Client Security
- Assigning a Baseline and Performing a Baseline Evaluation
- Viewing Desired Configuration Management Reports

After completing this module, students will be able to:

- Describe desired configuration management.
- Describe desired configuration management usage scenarios.
- Describe the features of the Desired Configuration Management home page.
- Describe configuration items.
- Describe configuration baselines.
- Describe configuration packs.
- Describe noncompliance severity levels.
- Describe compliance evaluation schedules.
- Describe how desired configuration management works.
- Describe the prerequisites for implementing desired configuration management.
- Describe the Desired Configuration Manager Client Agent.
- Configure desired configuration management.
- Create and manage configuration items.
- Create and manage configuration baselines.
- Assign configuration baselines.
- Describe Forefront Client Security.
- Describe the Forefront Client Security Agent.
- Describe Forefront Client Security and Software Updates integration.
- Describe Forefront Client Security and desired configuration management integration.
- Use the Forefront Client Security configuration pack.
- Describe the desired configuration management reports.
- Describe the desired configuration management log files.
- View compliance results.
- Use Software Updates to remediate noncompliant computers.

Module 11: Configuring Wake On LAN, Out of Band Management, and Remote Tools

This module explains how to configure the Wake On LAN, out of band management, and remote tools features in Configuration Manager 2007.

Lessons

- Overview of Wake On LAN
- Overview of Out of Band Management
- Configuring Out of Band Management
- Overview of Configuration Manager 2007 Remote Tools
- Configuring the Remote Tools Client Agent

Lab: Configuring and Using Remote Tools

- Configuring the Remote Tools Client Agent
- Using Remote Tools
- Monitoring Remote Tools Usage

After completing this module, students will be able to:

- Describe the benefits and scenarios for using Wake On LAN.
- Describe the types of Wake On LAN packets used to power-on computers.
- Describe prerequisites for implementing Wake On LAN.
- Configure Wake On LAN.
- Configure Wake On LAN activities.
- Monitor Wake On LAN activities.
- Describe out of band management.
- Describe the prerequisites for out of band management.
- Describe the certificate requirements for out of band management.
- Describe AMT provisioning for out of band management.

- Prepare server systems to support out of band management.
- Create and configure an out of band service point.
- Configure the out of band management component.
- Discover computers that have management controllers.
- Use the out of band management console.
- Monitor out of band management.
- Describe Configuration Manager remote administration options.
- Describe Configuration Manager remote tools.
- Describe how Remote Assistance and Remote Control integrate with Configuration Manager.
- Describe the ConfigMgr Remote Control Users group and collection security.
- Describe how to audit remote control usage.
- Describe best practices for remote tools security.
- Describe the Remote Tools Client Agent.
- Describe the general properties available for the Remote Tools Client Agent.
- Describe security options available for the Remote Tools Client Agent.
- Describe notification options available for the Remote Tools Client Agent.
- Describe the remote assistance settings available for the Remote Tools Client Agent.
- Describe remote desktop settings available for the Remote Tools Client Agent.
- Enable and configure the Remote Tools Client Agent.

Module 12: Planning and Configuring a Multiple Site Hierarchy

This module describes how to configure a multiple site hierarchy in Configuration Manager 2007.

Lessons

- Introduction to the Configuration Manager 2007 Site Hierarchy
- Configuring Configuration Manager 2007 Site Communications
- Installing a Secondary Site Server
- Roaming in Multiple Site Hierarchies
- Decommissioning Sites and Hierarchies

Lab: Planning a Configuration Manager 2007 Hierarchy and Installing a Primary Child Site

- Planning a Configuration Manager Hierarchy
- Preparing the Central Site
- Configuring Parent Site Communications Settings
- Configuring Child Site Communications Settings
- Establishing the Parent-Child Relationship
- Verifying Communication Between Parent and Child Sites
- Transferring Site Settings

Lab: Installing Secondary Sites and Proxy Management Points

- Installing a Secondary Site
- Configuring Site Boundaries
- Installing a Proxy Management Point

Lab: Roaming Between Configuration Manager 2007 Sites

- Preparing Packages for Roaming
- Roaming to a Primary Child Site
- Roaming to a Secondary Child Site

After completing this module, students will be able to:

- Describe the difference between primary and secondary sites.
- Describe how data flows in a Configuration Manager 2007 site hierarchy.
- Describe the planning considerations for creating multiple sites.
- Explain how to plan a site hierarchy.
- Describe Configuration Manager 2007 site-to-site communications.
- Describe the purpose of a site address.
- Describe Configuration Manager senders.
- Explain how to set a parent site.
- Describe secure key exchange.
- Explain how to troubleshoot secure key exchange.

- Explain how to copy site settings from one site to another.
- Describe the methods for installing a secondary site server
- Explain how to install and verify a proxy management point
- Install a secondary site and a proxy management point
- Describe client roaming.
- Describe the differences between regional roaming and global roaming.
- Describe how to manage how roaming clients access content.
- Describe client roaming between sites using different modes.
- Explain how to remove and uninstall a primary site.
- Explain how to remove a secondary site from the hierarchy.

Module 13: Maintaining and Monitoring Microsoft System Center Configuration Manager 2007

This module explains how to maintain and monitor Configuration Manager 2007.

Lessons

- Configuration Manager 2007 Maintenance Tasks
- Backup and Recovery of Configuration Manager 2007
- Using Microsoft System Center Operations Manager 2007 to Monitor Configuration Manager 2007
- Using Windows Performance Monitor to Monitor Configuration Manager 2007

Lab: Backing Up and Repairing a Primary Site System

- Configuring the Backup Configuration Files
- Preparing the Configuration Manager Hierarchy
- Backing up a Primary Site System
- Performing a Site Repair

Lab: Using Windows Performance Monitor to Monitor Configuration Manager 2007

- Configuring Performance Monitor for Configuration Manager 2007
- Monitoring Configuration Manager 2007
- Reviewing Performance Monitor Results for Configuration Manager 2007

After completing this module, students will be able to:

- Describe Configuration Manager site maintenance.
- Describe Configuration Manager site maintenance tasks.
- Explain predefined daily, weekly, and periodic site maintenance tasks.
- Create a site maintenance and monitoring plan.
- Schedule site maintenance tasks.
- Describe Configuration Manager backup and recovery.
- Explain how to back up Configuration Manager sites.
- Describe Configuration Manager site backup tasks.
- Describe how to customize the backup configuration files.
- Describe Configuration Manager site recovery tasks.
- Troubleshoot site backups, and run the Site Repair Wizard.
- Describe Operations Manager 2007.
- Describe Operations Manager 2007 Management Packs.
- Describe the Configuration Manager 2007 Management Pack.
- Identify performance considerations for Configuration Manager sites.
- Describe expected server resource usage for Configuration Manager sites.
- Explain how to monitor performance of your Configuration Manager sites.
- Describe how to troubleshoot performance issues on your Configuration Manager sites.

Module 14: Microsoft System Center Configuration Manager 2007 Native Mode and Internet-Based Client Management

This module explains Configuration Manager 2007 native mode, and how to install it.

Lessons

- Introduction to the Configuration Manager 2007 Native Mode
- The Public Key Infrastructure Required for Native Mode

- Configuring Sites for Native Mode
- Internet-Based Client Management

Lab: Configuring Native Mode

- Configuring the Certificate Templates
- Enrolling Certificates Required for Native Mode
- Changing the Site From Mixed Mode to Native Mode

Lab: Configuring a Site for Internet-Based Client Management

- Configuring Site Roles for Internet-Based Client Management
- Configuring Clients for Internet-Based Client Management

After completing this module, students will be able to:

- Describe the benefits of native mode.
- Describe the prerequisites for native mode.
- Describe the certificate requirements for native mode.
- Describe Public Key Infrastructure (PKI).
- Describe the process of how PKI works.
- Configure certificate templates.
- Describe certificate enrollment methods.
- Describe how to deploy root certificates to Configuration Manager clients.
- Explain how to enroll the site server signing certificate.
- Describe how to deploy the Web server certificate used by site systems.
- Describe how to deploy the client authentication certificate.
- Determine native mode readiness.
- Change a site to native mode.
- Verify a successful native mode migration.
- Troubleshoot native mode client certificate issues.
- Describe Internet-Based Client Management (IBCM).
- Describe the prerequisites for IBCM.
- Describe how to configure site systems to support IBCM.
- Describe how to configure site system roles to support IBCM.
- Describe how to configure clients for IBCM.
- Describe how to determine client status.